

SEQUENCE LISTING

<110> SCHWERS, STEPHAN
KALLABIS, HARALD
STROPP, UDO

<120> SINGLE NUCLEOTIDE POLYMORPHISMS SENSITIVELY PREDICTING
ADVERSE DRUG REACTIONS (ADR) AND DRUG EFFICACY

<130> 1300-0015

<140> 10/525,278

<141> 2005-02-17

<150> PCT/EP03/009126

<151> 2003-08-18

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<160> 761

<170> PatentIn version 3.3

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36

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<220>
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<400> 110
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21

<210> 111
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<220>
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34

<210> 112
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34

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<400> 113
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<210> 114
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<220>
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<400> 114
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<210> 117
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<400> 119
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<210> 121
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<210> 124
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21

<210> 132
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<400> 132
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38

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 oligonucleotide

<400> 133
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34

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<400> 134
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37

<210> 135
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 <400> 135
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 oligonucleotide

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 <400> 137
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 <400> 138
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<210> 140
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<210> 141
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<210> 142
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 oligonucleotide

<400> 142
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<210> 143
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<220>
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<400> 143
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<210> 144
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<220>
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 <400> 146
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<210> 150
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<210> 152
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<210> 154
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<400> 154
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<210> 155
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<220>
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<400> 155
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<210> 156
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<400> 156
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<210> 157
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<400> 157
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<210> 158
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<400> 158
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<210> 159
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<400> 159
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<210> 160
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<210> 161
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<400> 161
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 oligonucleotide

<400> 162
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<210> 163
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<220>
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<400> 163
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<210> 164
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<210> 165
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<400> 165
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<210> 166
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 <210> 167
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 <400> 167
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 <210> 168
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 <400> 168
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 <210> 169
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 oligonucleotide

 <400> 169
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 <210> 170
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<400> 170
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<210> 171
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<400> 171
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<210> 172
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<400> 172
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<400> 173
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<210> 174
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<400> 174
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<210> 175
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<210> 176
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<400> 176
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<210> 177
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<400> 177
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<210> 178
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<400> 178
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<210> 179
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<220>
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 oligonucleotide

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<210> 181
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 oligonucleotide

<400> 181
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<210> 182
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 oligonucleotide

<400> 182
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<210> 183
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<400> 183
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<210> 184
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 oligonucleotide

<400> 184
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<210> 185
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 oligonucleotide

<400> 185
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<210> 186
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 oligonucleotide

<400> 186
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<210> 187
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 oligonucleotide

<400> 187
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<210> 188
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 <400> 188
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 <400> 189
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 <210> 190
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 <400> 190
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 <210> 191
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 <400> 191
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<400> 192
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<210> 193
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 oligonucleotide

<400> 193
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<210> 194
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 oligonucleotide

<400> 194
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<210> 195
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<220>
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 oligonucleotide

<400> 195
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 oligonucleotide

<400> 196
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<210> 197
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<220>
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 oligonucleotide

<400> 197
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<210> 198
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<220>
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 oligonucleotide

<400> 198
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<210> 199
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<220>
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 oligonucleotide

<400> 199
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<210> 200
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<220>
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 oligonucleotide

<400> 200
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<210> 201
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<220>
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 oligonucleotide

<400> 201
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<210> 202
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<220>
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 oligonucleotide

<400> 202
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<210> 203
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<220>
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 oligonucleotide

<400> 203
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<210> 204
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<220>
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 oligonucleotide

<400> 204
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<210> 205
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<220>
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 oligonucleotide

<400> 205
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<210> 206
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 oligonucleotide

<400> 206
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<210> 207
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<400> 207
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<210> 208
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<220>
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 oligonucleotide

<400> 208
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<210> 209
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 oligonucleotide

<400> 209
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<210> 210
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<220>
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 oligonucleotide

 <400> 210
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 <210> 211
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 <400> 211
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 oligonucleotide

 <400> 212
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 <210> 213
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 oligonucleotide

 <400> 213
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 <210> 214
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 oligonucleotide

<400> 214
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<210> 215
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<220>
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 oligonucleotide

<400> 215
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<210> 216
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<220>
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 oligonucleotide

<400> 216
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<210> 217
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 <212> DNA
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<220>
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 oligonucleotide

<400> 217
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<210> 218
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 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 218
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<210> 219
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<220>
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 oligonucleotide

<400> 219
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<210> 220
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<220>
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<210> 309
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<210> 406
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<210> 407
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<210> 409
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<210> 430
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oligonucleotide

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<210> 557
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<210> 560
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<220>
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<210> 561
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<400> 561
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<210> 562
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<210> 563
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<210> 564
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<210> 568
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<400> 568
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<210> 569
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<210> 570
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<210> 572
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<210> 573
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<210> 574
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<210> 575
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<220>
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<210> 576
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<220>
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 oligonucleotide

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<210> 577
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<210> 578
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 oligonucleotide

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<210> 581
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 oligonucleotide

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<210> 582
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<210> 583
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 <220>
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 oligonucleotide

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<210> 584
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<220>
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 oligonucleotide

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<210> 585
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<220>
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 oligonucleotide

<400> 585
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<210> 586
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<220>
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<400> 586
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<210> 587
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<220>
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<400> 587
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<210> 588
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<220>
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 oligonucleotide

<400> 588
 gctgttactc agtatgat 18

<210> 589
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<220>
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<400> 589
 ccgaagacca agacgc 16

<210> 590
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<220>
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<400> 590
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<210> 591
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<220>
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 aaacaagaaa ttctgttta 19

<210> 592
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<220>
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 oligonucleotide

<400> 592
 tgacagctcc cattggaa 18

<210> 593
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<220>
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oligonucleotide

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17

<210> 594
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<220>
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oligonucleotide

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18

<210> 595
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oligonucleotide

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23

<210> 596
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oligonucleotide

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22

<210> 597
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<220>
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 oligonucleotide

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 <210> 598
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 oligonucleotide

 <400> 598
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 <210> 599
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 <220>
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<220>
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<220>
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<400> 603
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<220>
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<210> 605
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<220>
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<400> 605
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<210> 606
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oligonucleotide

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<210> 607
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oligonucleotide

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<210> 608
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<220>
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oligonucleotide

<400> 608
cactgtgccc atctacgag 19

<210> 609
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<220>
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oligonucleotide

<400> 609
ggacctgact gattacct 18

<210> 610
<211> 24
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<220>
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oligonucleotide

<400> 610
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<210> 611
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<220>
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<400> 611
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<210> 612
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<220>
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 oligonucleotide

<400> 612
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<210> 613
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<220>
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 oligonucleotide

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<210> 614
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<220>
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 oligonucleotide

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<210> 615
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<220>
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 oligonucleotide

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<210> 616
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<220>
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 oligonucleotide

<400> 616
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<210> 617
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<220>
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 oligonucleotide

<400> 617
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<210> 618
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 oligonucleotide

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<210> 619
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<220>
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 oligonucleotide

<400> 619
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<210> 620
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 oligonucleotide

<400> 620
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 oligonucleotide

<400> 621
 gcctcagctt gacct 15

<210> 622
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<220>
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 oligonucleotide

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<210> 623
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 oligonucleotide

<400> 623
 cggggtgggg aggacagagc 20

<210> 624
 <211> 19
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<220>
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 oligonucleotide

<400> 624
 gaggacagag caaaaggat 19

<210> 625
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<220>
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 oligonucleotide

<400> 625
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<210> 626
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<220>
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 oligonucleotide

<400> 626
 caatgggtaa ggagtaaagt t 21

<210> 627
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<220>
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 oligonucleotide

<400> 627
 ttccagctgc tttta 15

<210> 628
 <211> 22
 <212> DNA
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<220>
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 oligonucleotide

 <400> 628
 gaacaaacct ccgagatgct ac 22

 <210> 629
 <211> 24
 <212> DNA
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 <220>
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 oligonucleotide

 <400> 629
 gtcttatggtt actgggcttt cacc 24

 <210> 630
 <211> 31
 <212> DNA
 <213> Artificial Sequence

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 oligonucleotide

 <400> 630
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 <210> 631
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 <220>
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 oligonucleotide

 <400> 631
 tttcgctcca tcaaccaagt c 21

 <210> 632
 <211> 26
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 <220>
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 oligonucleotide

<400> 632
 gccccagttat acctcagtgt tgtaac 26

<210> 633
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 633
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<210> 634
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
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 oligonucleotide

<400> 634
 ctgtaagcat ctggaattgt catga 25

<210> 635
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
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 oligonucleotide

<400> 635
 ggaccctaag aaccccagga t 21

<210> 636
 <211> 17
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 636
 acagggctgg cagccac 17

<210> 637
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<220>
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 oligonucleotide

<400> 637
 ggagctgtga ggtatgggct t 21

<210> 638
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
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 oligonucleotide

<400> 638
 tttggtgggt tgtcattgac a 21

<210> 639
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 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 639
 cactcagccc tgctctttcc 20

<210> 640
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 640
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<210> 641
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
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 oligonucleotide

<400> 641
 ccgtggcttc atggtgact 19

<210> 642
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
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 oligonucleotide

<400> 642
 ttctcactgt gatataataa ctcagaccc 29

<210> 643
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
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 oligonucleotide

<400> 643
 tcattacatc aggtatattg cactgtaaa 29

<210> 644
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 644
 gctgcattgg agaggactga tc 22

<210> 645
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 645
 tgctagtgtt ttctggttgc atatt 25

<210> 646
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 646
gcgaagtgtc ggacaccaa

19

<210> 647
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 647
aagatgacct tatggctctg agatg

25

<210> 648
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 648
ggccttgaag aagattttat attgagaa

28

<210> 649
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 649
gatgggtgat cagccgaatc

20

<210> 650
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 650
 aggtcagtag agagggtatc atgaga 26

<210> 651
 <211> 17
 <212> DNA
 <213> Artificial Sequence

<220>
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 oligonucleotide

<400> 651
 cgccctcggc actcttg 17

<210> 652
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 652
 ggctcagtct ttgatcttta gcaag 25

<210> 653
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 653
 atgggctaac acaggagatg atg 23

<210> 654
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 654
agcctctgcc ctcctcca 18

<210> 655
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 655
tgtcaagatg cagctgaagg tc 22

<210> 656
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 656
tggacatatg ggcggactct 20

<210> 657
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 657
catccttggc ggtcttggt 19

<210> 658
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 658
ggaggatgcc atctcgaaca 20

<210> 659
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 659
ctacctgtcc ggtgcatcat c 21

<210> 660
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 660
cgatgaacag ttggaatagg ttgt 24

<210> 661
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 661
tcagagacac tgaagaactt aaagaaatc 29

<210> 662
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 662
cggttaactt ataaagaaac ggatgttc 28

<210> 663
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 663
 ggcaccgtgt agacttgatc taaa 24

<210> 664
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 664
 ggttacgtct gctcttcgat cct 23

<210> 665
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 665
 tctcgggaaca tgaccttag tctgt 25

<210> 666
 <211> 16
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 666
 ctatgcatac ttttgc 16

<210> 667
 <211> 17
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 667
 caattggagt tgggagg 17

<210> 668
 <211> 17
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 668
 tgtgatacct ggaacag 17

<210> 669
 <211> 16
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 669
 ccaaacaaca ggacgg 16

<210> 670
 <211> 18
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<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 670
 cactcacatt ataattag 18

<210> 671
 <211> 13
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 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 671
 tggcctggcg gtg 13

<210> 672
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 672
aaccaaaatg aaggagag 18

<210> 673
<211> 14
<212> DNA
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<220>
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oligonucleotide

<400> 673
acggaggaag aggt 14

<210> 674
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 674
agtgtgatca tcacttt 17

<210> 675
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 675
tgcagggcta catga 15

<210> 676
<211> 16
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 676
tgcctccttc tcacac 16

<210> 677
<211> 17
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 677
tcctataaccg tgggtgt 17

<210> 678
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<210> 679
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oligonucleotide

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<210> 680
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oligonucleotide

<400> 680
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14

<210> 682
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16

<210> 683
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16

<210> 684
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      oligonucleotide

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<210> 685
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oligonucleotide

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<210> 687
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oligonucleotide

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<210> 688
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oligonucleotide

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<210> 689
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oligonucleotide

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<210> 690
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<220>
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<210> 691
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<210> 692
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<220>
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<210> 693
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<220>
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 tcatgcaggg ttacat 16

<210> 694
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<220>
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oligonucleotide

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<210> 695
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oligonucleotide

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<210> 696
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oligonucleotide

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<210> 697
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oligonucleotide

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<210> 698
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oligonucleotide

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<210> 699
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<210> 700
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aagacgaaaa tggatc 16

<210> 701
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<220>
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oligonucleotide

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aagaactgcc ctgcc 15

<210> 702
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<400> 702
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<210> 703
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oligonucleotide

<400> 703
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<210> 704
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<223> Description of Artificial Sequence: Synthetic
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<400> 705
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<210> 706
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<400> 706
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<210> 707
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oligonucleotide

<400> 707
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<210> 708
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<220>
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oligonucleotide

<400> 708
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<210> 709
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oligonucleotide

<400> 709
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<210> 710
<211> 19
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<220>
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oligonucleotide

<400> 710
acattcccct tccacgctt 19

<210> 711
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<220>
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oligonucleotide

<400> 711
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<210> 712
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<220>
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oligonucleotide

<400> 712
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18

<210> 713
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<220>
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oligonucleotide

<400> 713
gaaagctaac tcccctgacg

20

<210> 714
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oligonucleotide

<400> 714
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27

<210> 715
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<212> DNA
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oligonucleotide

<400> 715
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30

<210> 716
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<220>
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<400> 716
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<210> 717
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 oligonucleotide

<400> 717
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<210> 718
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<220>
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<400> 718
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<210> 719
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<400> 719
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<210> 720
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<210> 721
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oligonucleotide

<400> 721
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<210> 722
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oligonucleotide

<400> 722
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<210> 723
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oligonucleotide

<400> 723
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<210> 724
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<212> DNA
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oligonucleotide

<400> 724
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<210> 725
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<220>
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 oligonucleotide

<400> 725
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17

<210> 726
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<220>
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 oligonucleotide

<400> 726
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19

<210> 727
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<220>
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<400> 727
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20

<210> 728
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 oligonucleotide

<400> 728
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20

<210> 729
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 <210> 730
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 <400> 730
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 <210> 731
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 <210> 732
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 oligonucleotide

 <400> 732
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 <210> 733
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 <400> 733
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<210> 734
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<400> 734
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<210> 735
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<220>
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<400> 735
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<210> 736
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<210> 737
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<400> 737
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<210> 738
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oligonucleotide

<400> 738
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<210> 739
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oligonucleotide

<400> 739
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<210> 740
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oligonucleotide

<400> 740
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<210> 741
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oligonucleotide

<400> 741
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<210> 742
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oligonucleotide

<400> 742
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<210> 743
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oligonucleotide

<400> 743
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<210> 744
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oligonucleotide

<400> 744
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<210> 745
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oligonucleotide

<400> 745
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<210> 746
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oligonucleotide

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<210> 747
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oligonucleotide

<400> 747
aggaaagctg ggtatgt 17

<210> 748
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oligonucleotide

<400> 748
cccacctccc tcctagcctc agtt 24

<210> 749
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oligonucleotide

<400> 749
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<210> 750
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oligonucleotide

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<210> 751
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oligonucleotide

<400> 751
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oligonucleotide

<400> 752
ctgagaaaaa agcttc 16

<210> 753
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oligonucleotide

<400> 753
tgctcaggac agcc 14

<210> 754
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oligonucleotide

<400> 754
caaggaaggg tggc 14

<210> 755
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oligonucleotide

<400> 755
cccagtaatc cagacac 17

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oligonucleotide

<400> 756
ttccattgga cgtcct 16

<210> 757
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<213> Artificial Sequence

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oligonucleotide

<400> 757
tctcggcgct cgt 13

<210> 758
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oligonucleotide

<400> 758
ttggcatcgc gtcag 15

<210> 759
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oligonucleotide

<400> 759
acaccgtatt tttcac 16

<210> 760
<211> 18
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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 760

ctaaagctgt catattac

18

<210> 761

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 761

tcctctgagt aacaac

16